

# *The Orbital Classroom*



# *AMSAT*

## *Educational Overview*

### *CubeSat Workshop*

### *Cal Poly, San Luis Obispo*

### *27-29 April 2006*

# The Orbital Classroom



Content © H. Paul Shuch and AMSAT

Background © Jon Lomborg

# *The Orbital Classroom*



AMSAT is a non-profit volunteer organization which designs, builds and operates experimental satellites and **promotes space education**. We work in partnership with government, industry, **educational institutions** and fellow amateur radio societies. We encourage technical and scientific innovation, and promote the **training and development of skilled satellite and ground system designers and operators**.

# *The Orbital Classroom*

## *AMSAT's Educational Initiatives*



- OSCAR
- SAREX
- ARISS
- CubeSats
- Publications
- Conferences
- Curricula

# *The Orbital Classroom*

- OSCAR



**Australis OSCAR 5**  
**University of Melbourne**  
**Launched 1970**



# The Orbital Classroom

- SAREX



Owen Garriott, W5LFL

STS-9

December 1983

Content © H. Paul Shuch and AMSAT

Background © Jon Lomborg

# The Orbital Classroom

- **ARISS**



**Susan Helms,  
KC7NHZ,  
Aboard the ISS**

# The Orbital Classroom

- CUBESATS

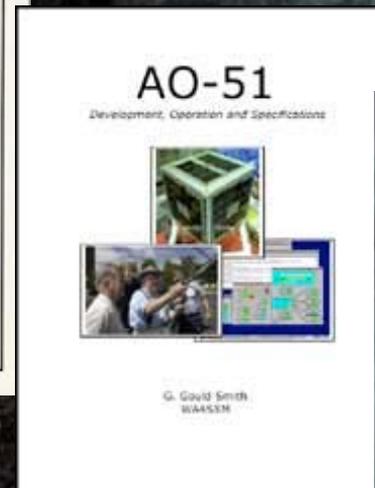
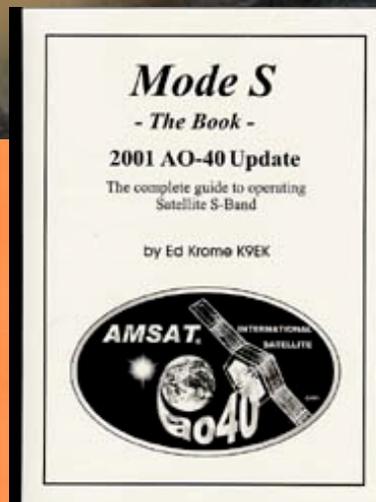
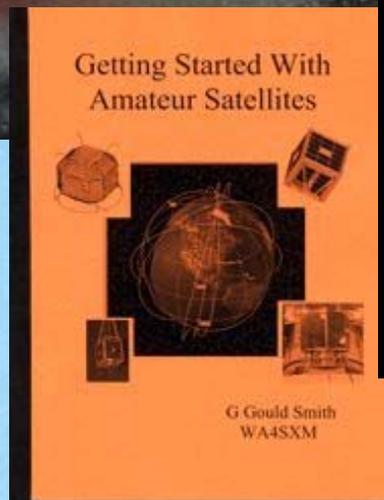
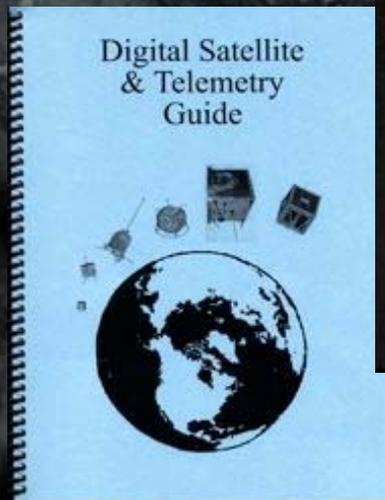


Content © H. Paul Shuch and AMSAT

Background © Jon Lomberg

# The Orbital Classroom

- PUBLICATIONS



# The Orbital Classroom

- CONFERENCES



Space Day  
at NASM

# The Orbital Classroom

## • CURRICULA



### AMSAT EDUCATOR'S SURVEY

All AMSAT members currently or formerly involved in training and education are encouraged to complete this survey form, to assist the Director of Education in assessing resources and capabilities available to accomplish AMSAT's educational mission. Qualified individuals returning this survey will be designated official AMSAT Educators, and invited to participate in various upcoming educational initiatives.

NAME: \_\_\_\_\_ CALL: \_\_\_\_\_ EMAIL: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ MEMBER #: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE/PROV.: \_\_\_\_\_ ZIP: \_\_\_\_\_

#### PLEASE CHECK ALL THAT APPLY:

EDUCATIONAL POSITION:  Classroom teacher  
 College Professor  
 School Administrator  
 Curriculum Developer  
 School Librarian  
 Industrial Trainer  
 Instructional Support  
 Parent / Mentor  
 Other \_\_\_\_\_

GRADE LEVEL:  Primary / Elementary  
 Junior High / Middle School  
 High School / VocTech  
 Junior College / Community College  
 Undergraduate University  
 Graduate University  
 Other \_\_\_\_\_

TYPE OF INSTITUTION:  Public  
 Private  
 Charter  
 Magnet  
 Parochial  
 Home School  
 Government / Military  
 Business / Industry  
 Other \_\_\_\_\_

SUBJECTS TAUGHT:  Math  
 Social Studies  
 Physical Science  
 Social Science  
 Language Arts  
 Fine Arts  
 Other \_\_\_\_\_

PLEASE ANSWER THE FOLLOWING QUESTIONS BASED UPON YOUR PRESENT OR PAST EXPERIENCES. YOU MAY ATTACH SUPPLEMENTAL INFORMATION AS REQUIRED.

Have you any experience with using satellites or space technology in the classroom? Please elaborate.

---

---

---

Have you developed curriculum or lesson modules incorporating satellites or space technology? Elaborate.

---

---

---

Do you anticipate incorporating satellites or space technology into your teaching in the future? Specify.

---

---

---

ARE YOU INTERESTED IN:  Developing such materials and resources  
 Sharing such materials and resources  
 Receiving such materials and resources  
 Other \_\_\_\_\_

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

#### PLEASE RETURN COMPLETED SURVEY TO:

Dr. H. Paul Shuch, N6TX, AMSAT Director of Education  
121 Florence Drive  
Cogan Station PA 17728 USA (n6tx@amsat.org)

# *The Orbital Classroom*

- CONTACT:



**Dr. H. Paul Shuch, N6TX**  
**AMSAT Director of Education**  
**n6tx@amsat.org**